

FIG.1

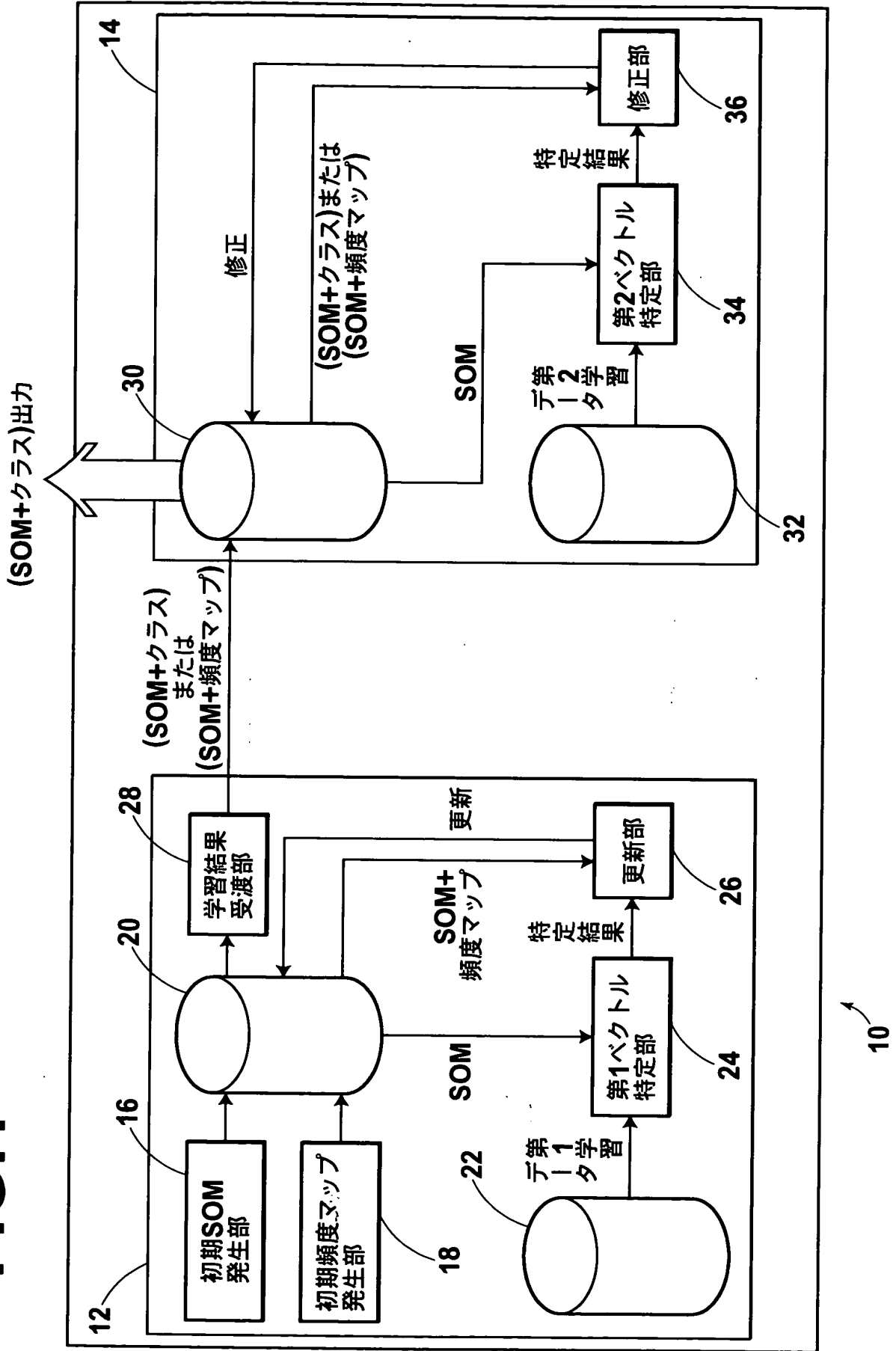
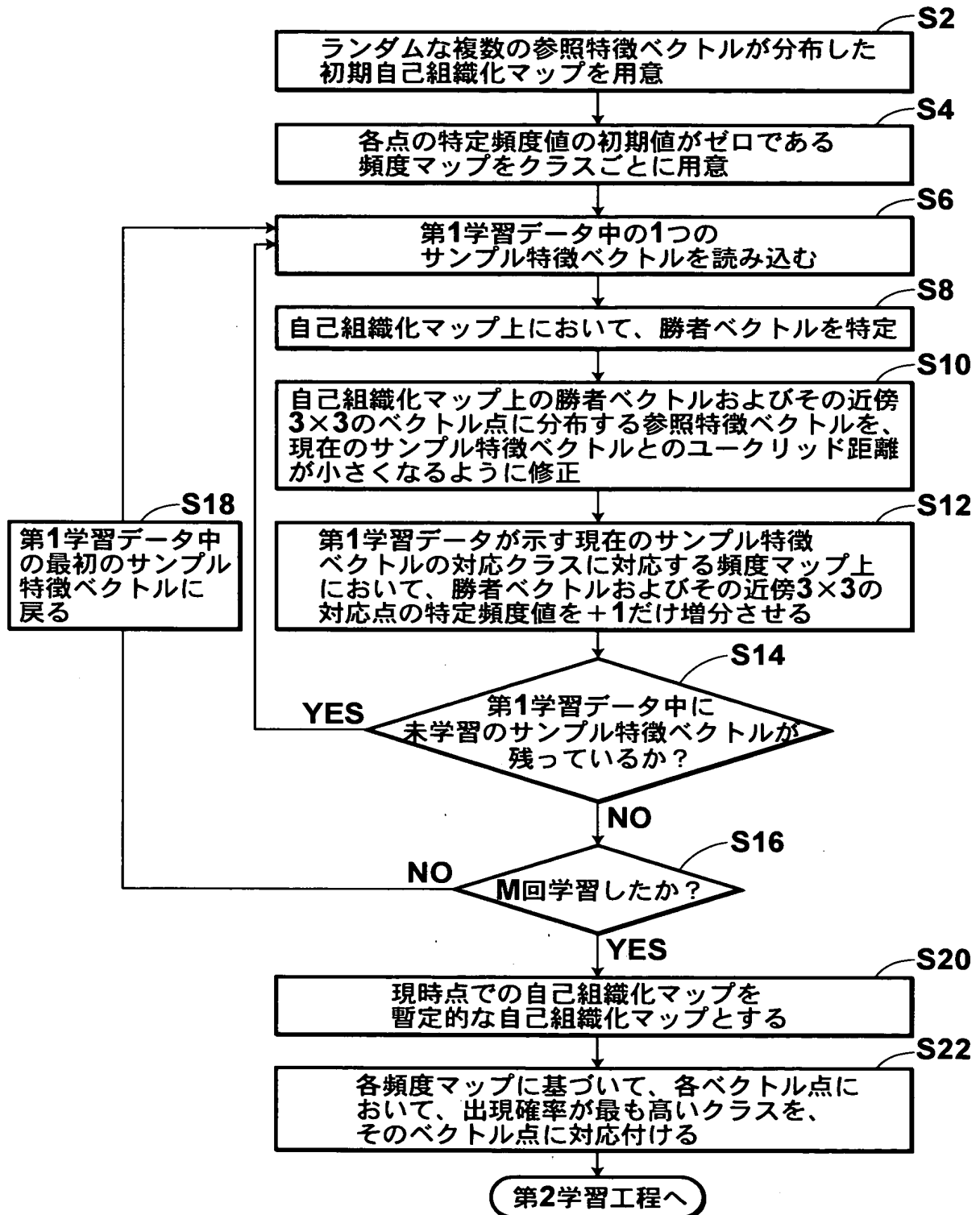


FIG.2



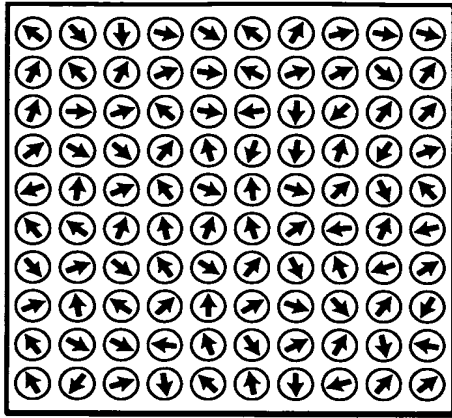
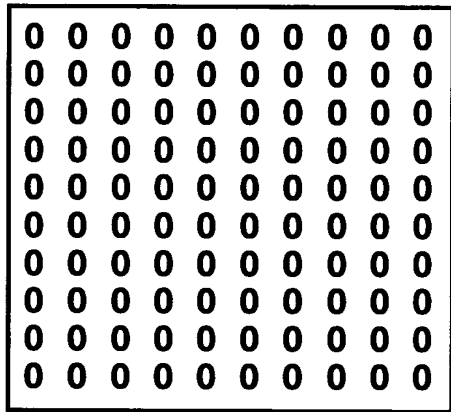
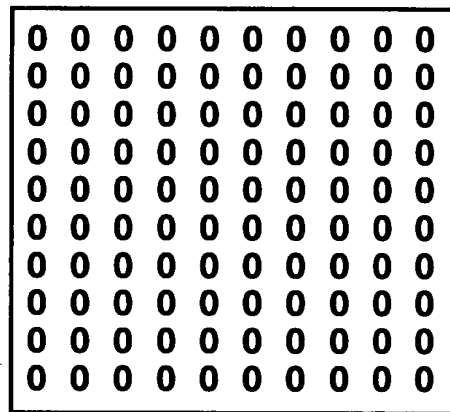


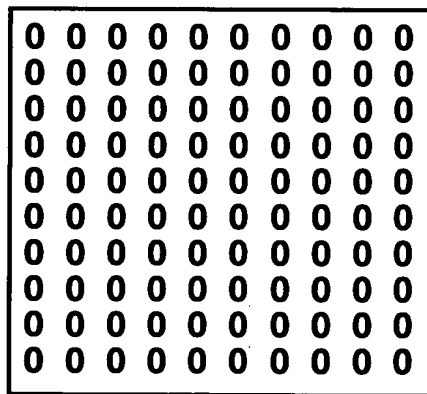
FIG.3A



空



山



草原

FIG.3B

FIG.4A

-1	0	1
-1	0	1
-1	0	1

縦エッジ検出用フィルター

FIG.4B

-1	-1	-1
0	0	0
1	1	1

横エッジ検出用フィルター

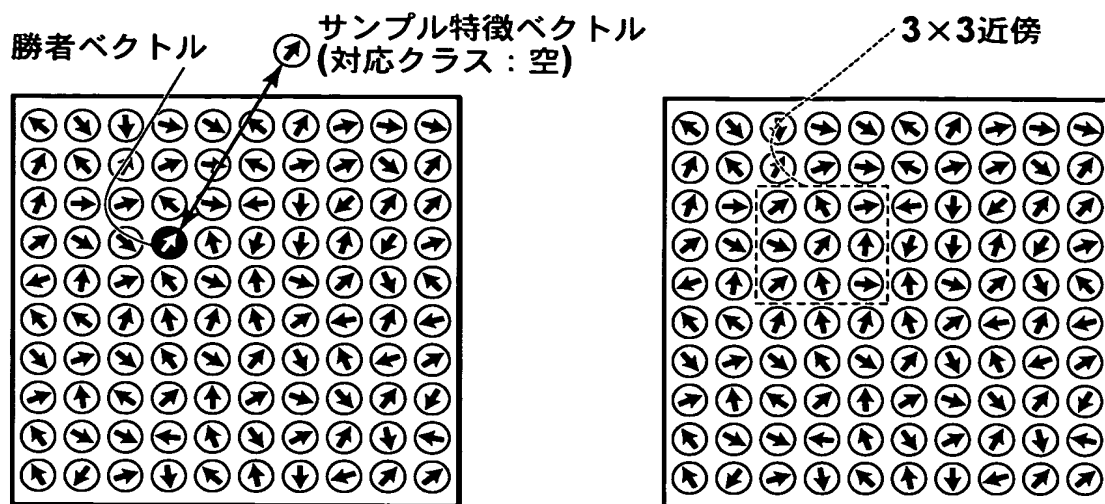


FIG.5A

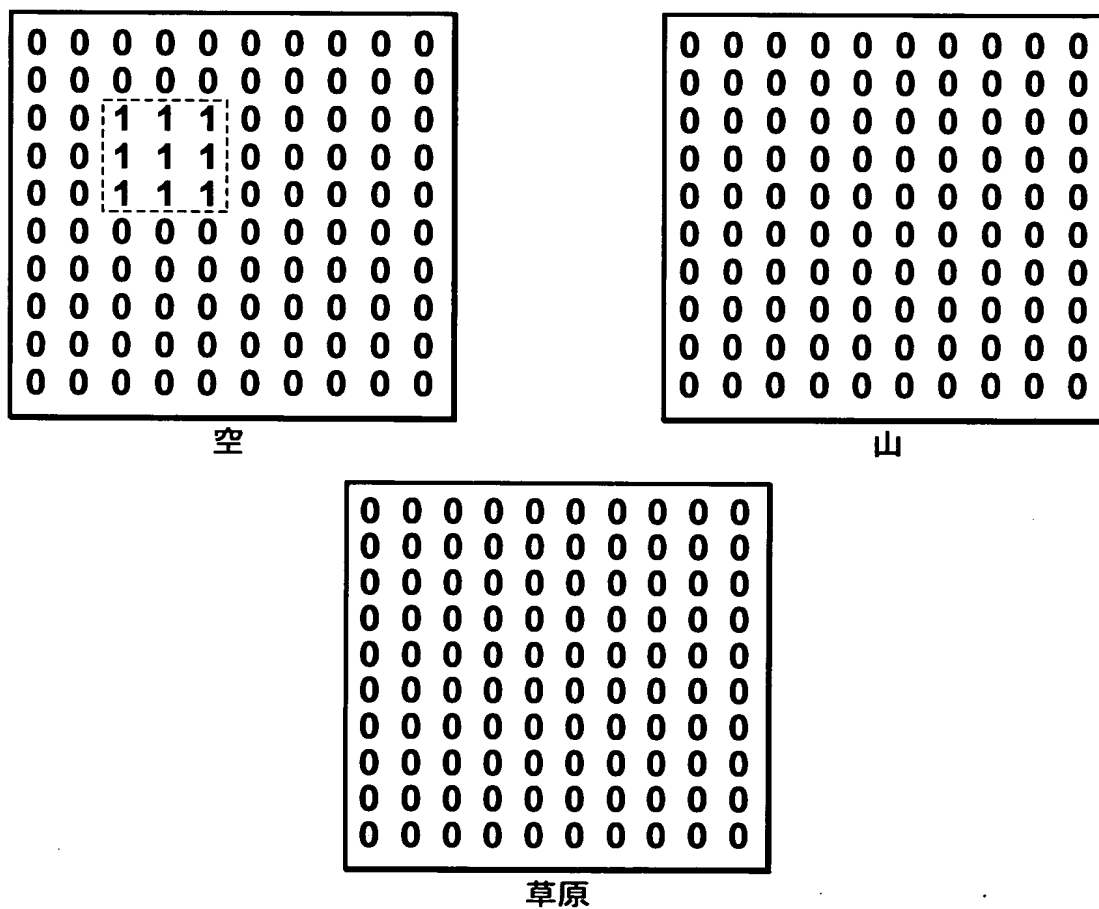
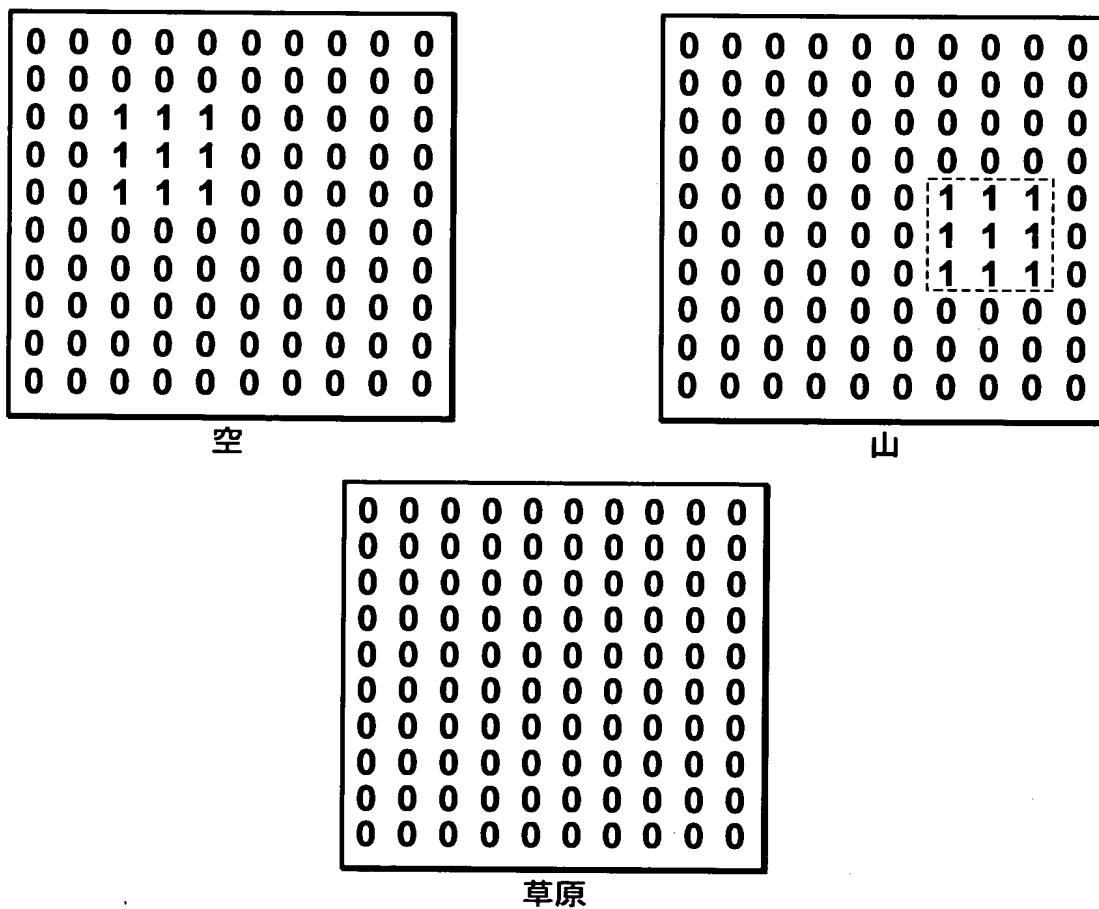
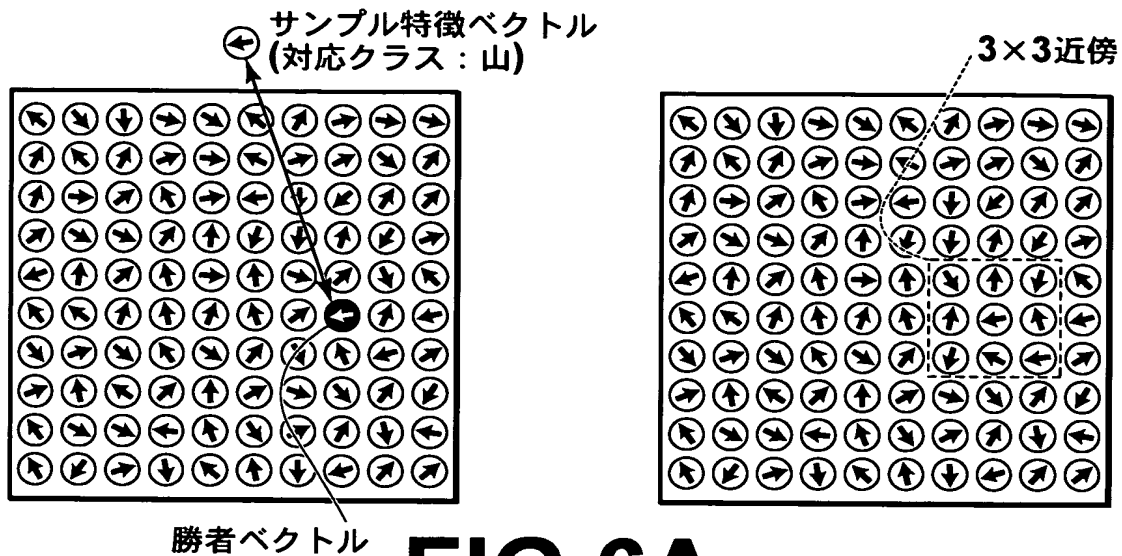


FIG.5B



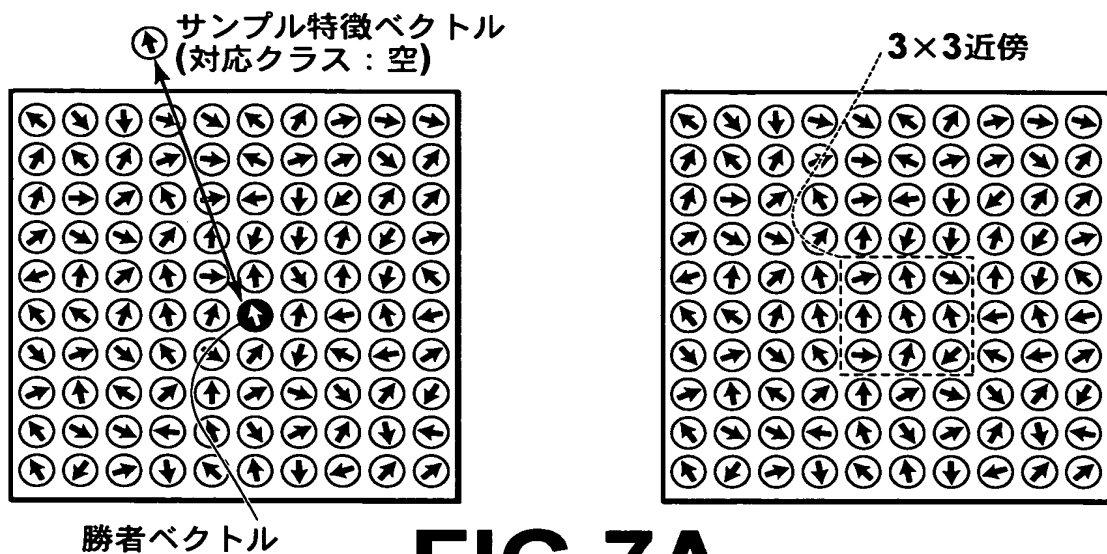


FIG.7A

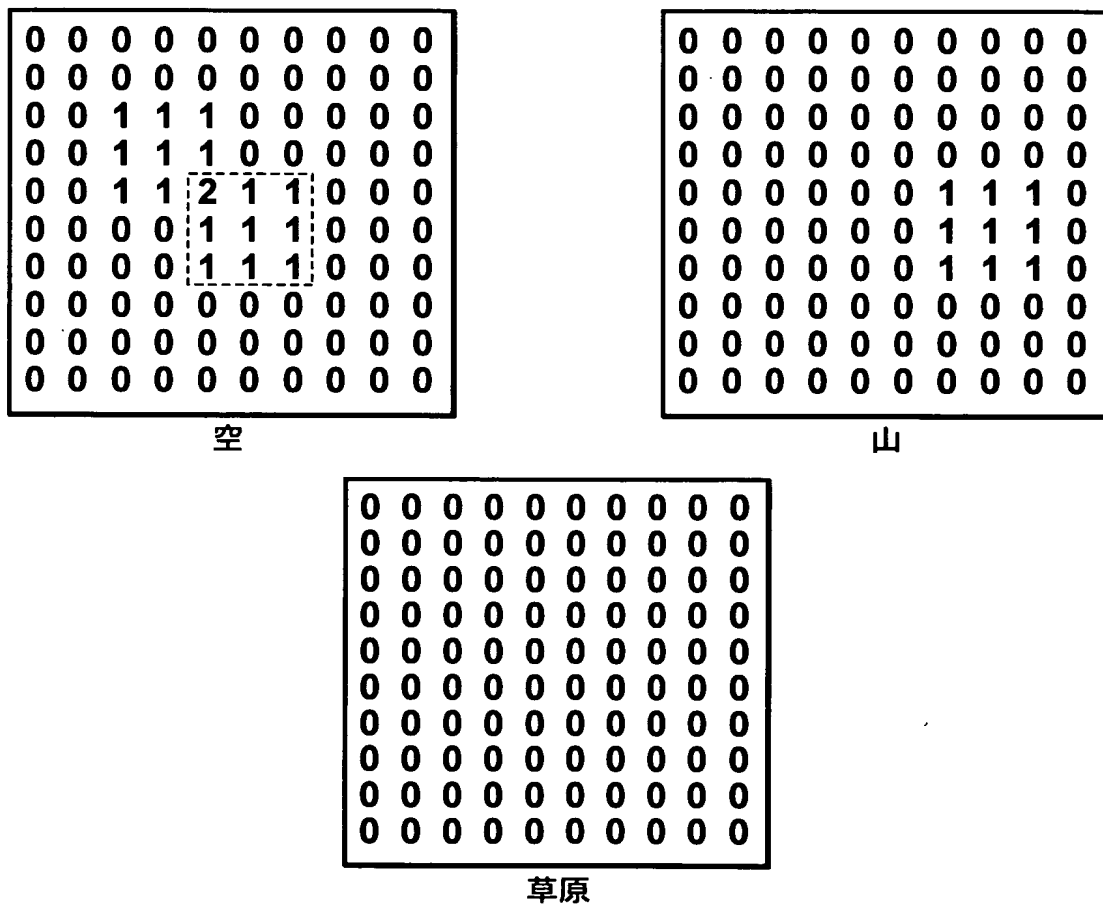


FIG.7B

FIG.8A

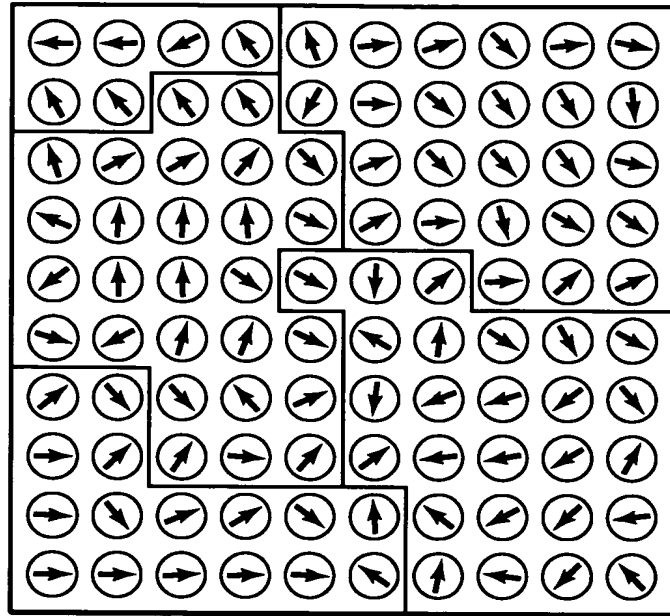
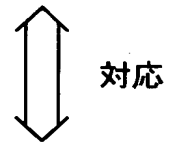


FIG.8B



対応

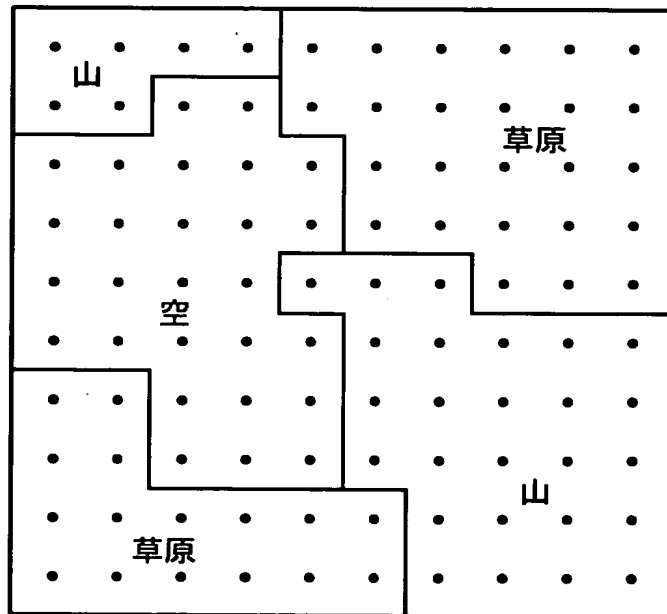


FIG.9

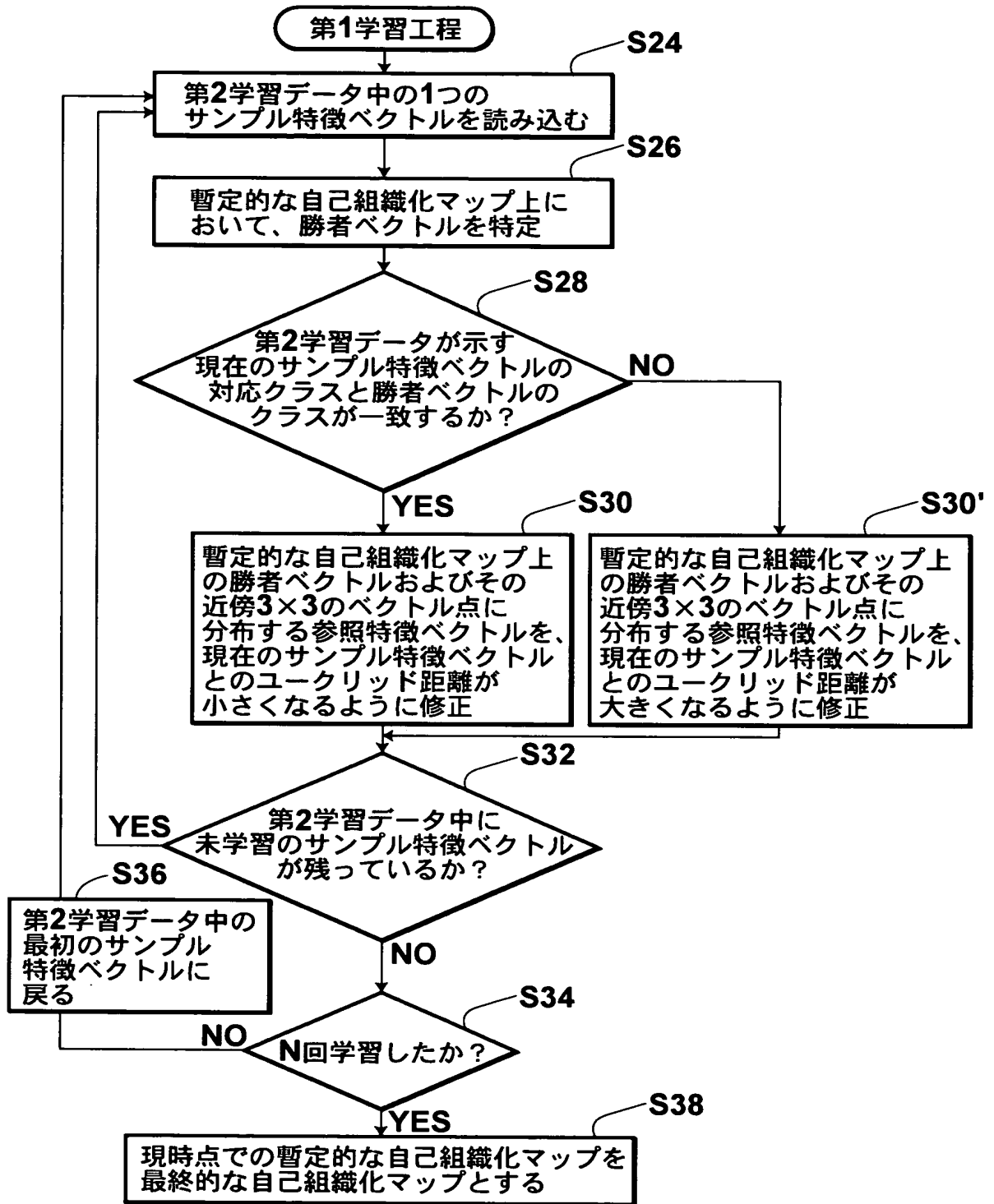


FIG.10A

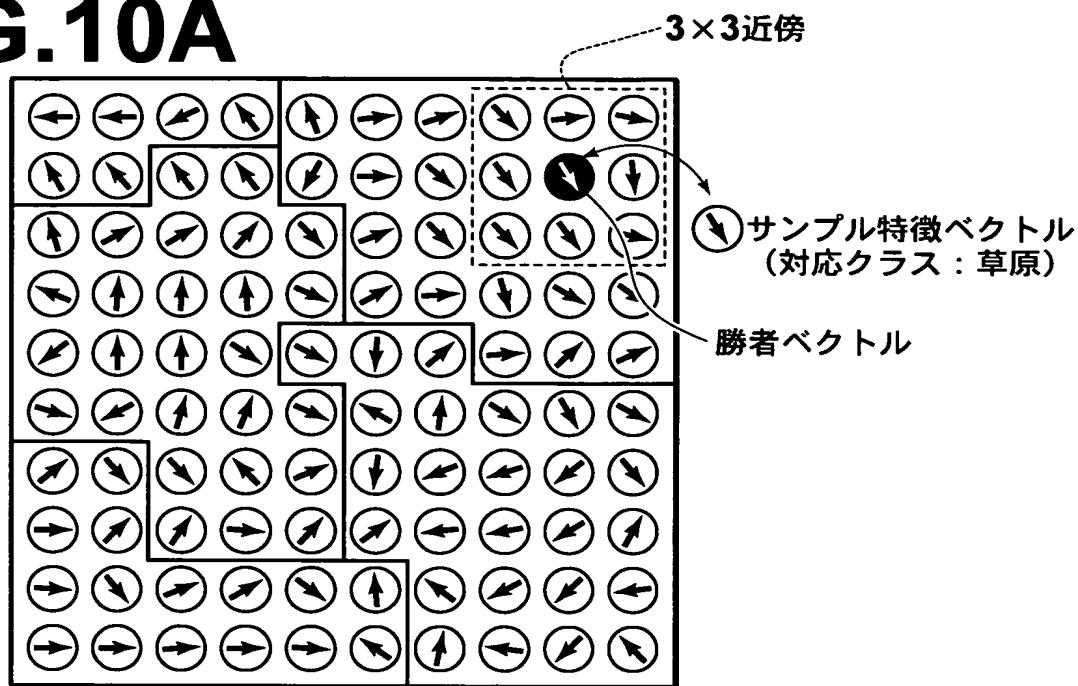


FIG.10B

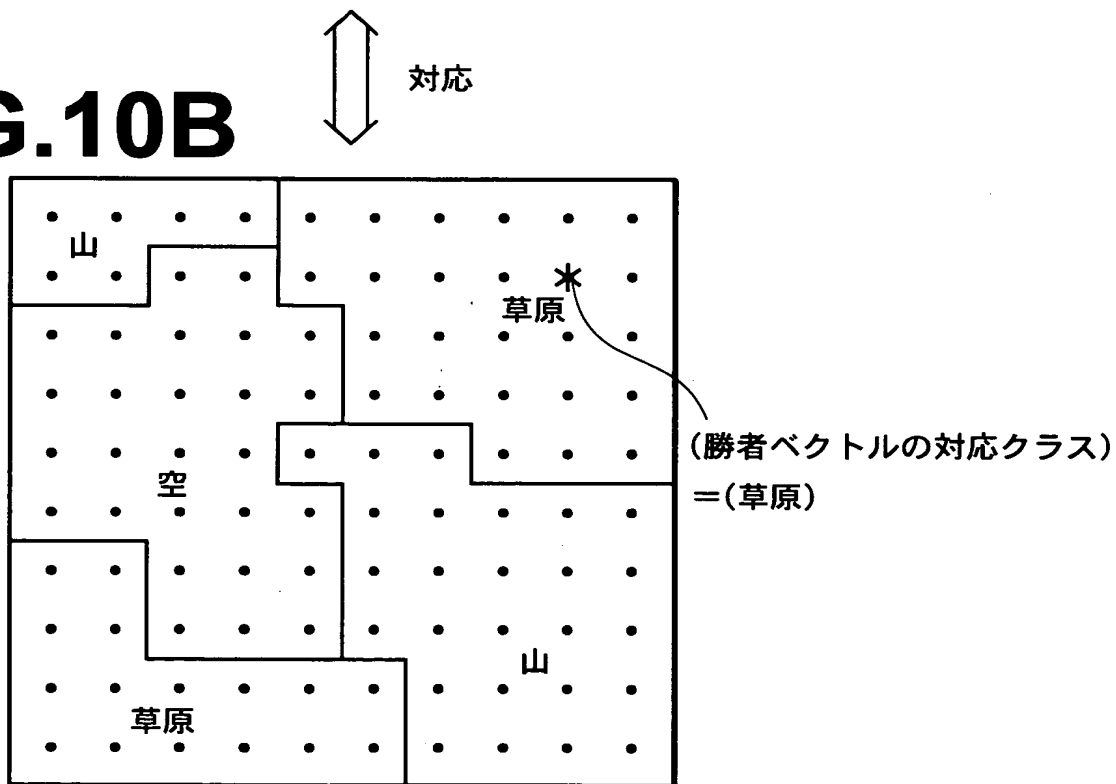


FIG.11A

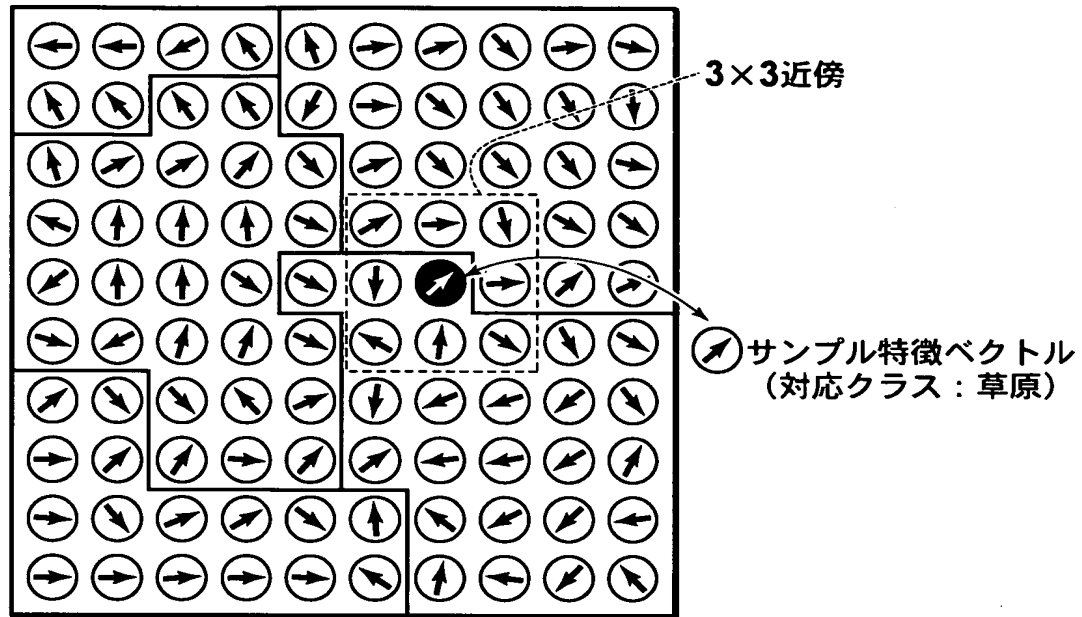


FIG.11B

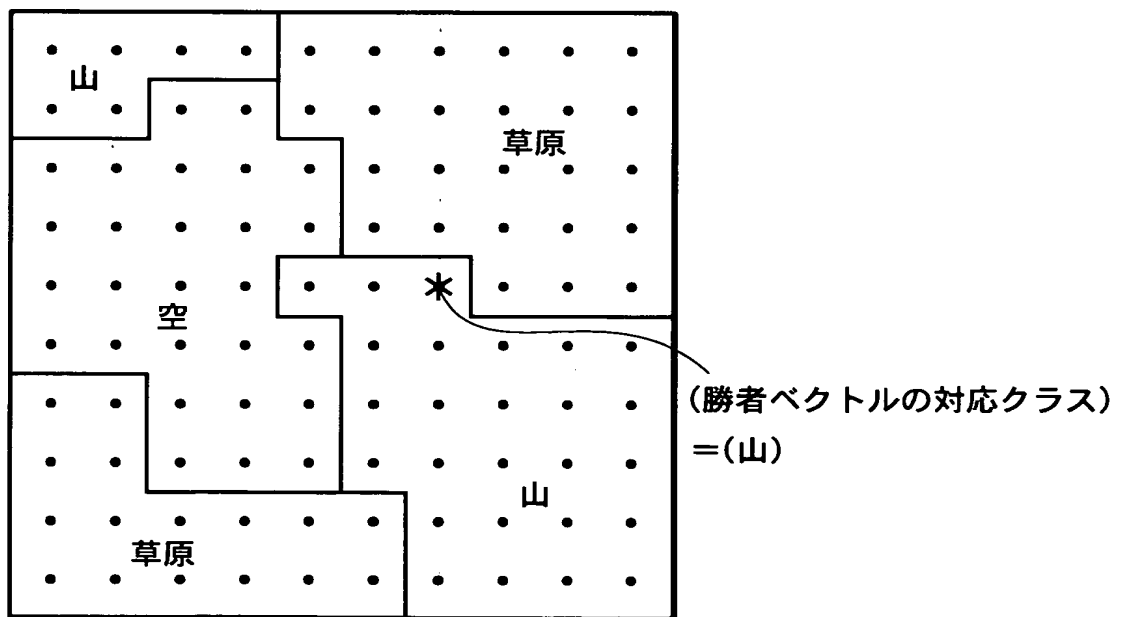
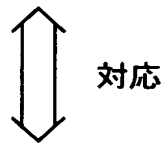


FIG.12

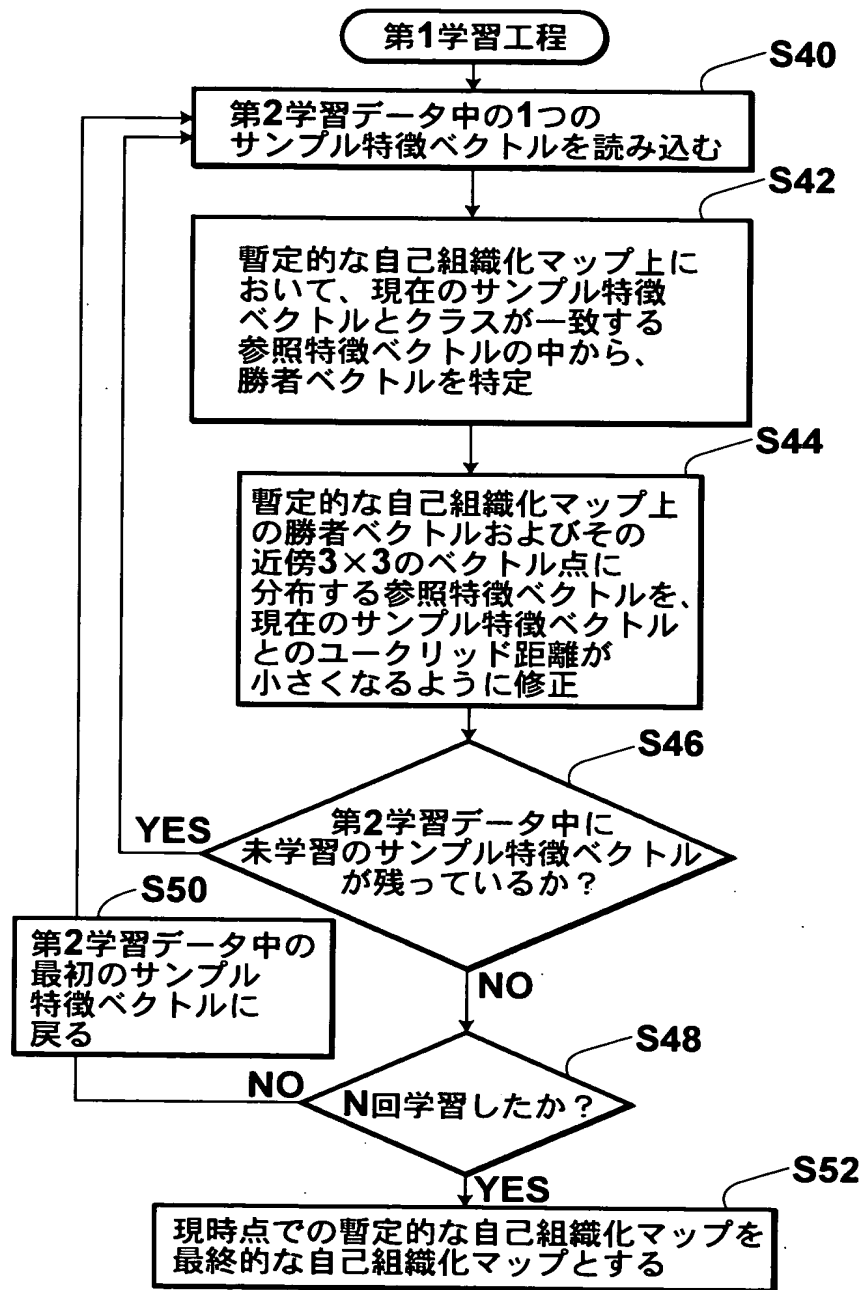
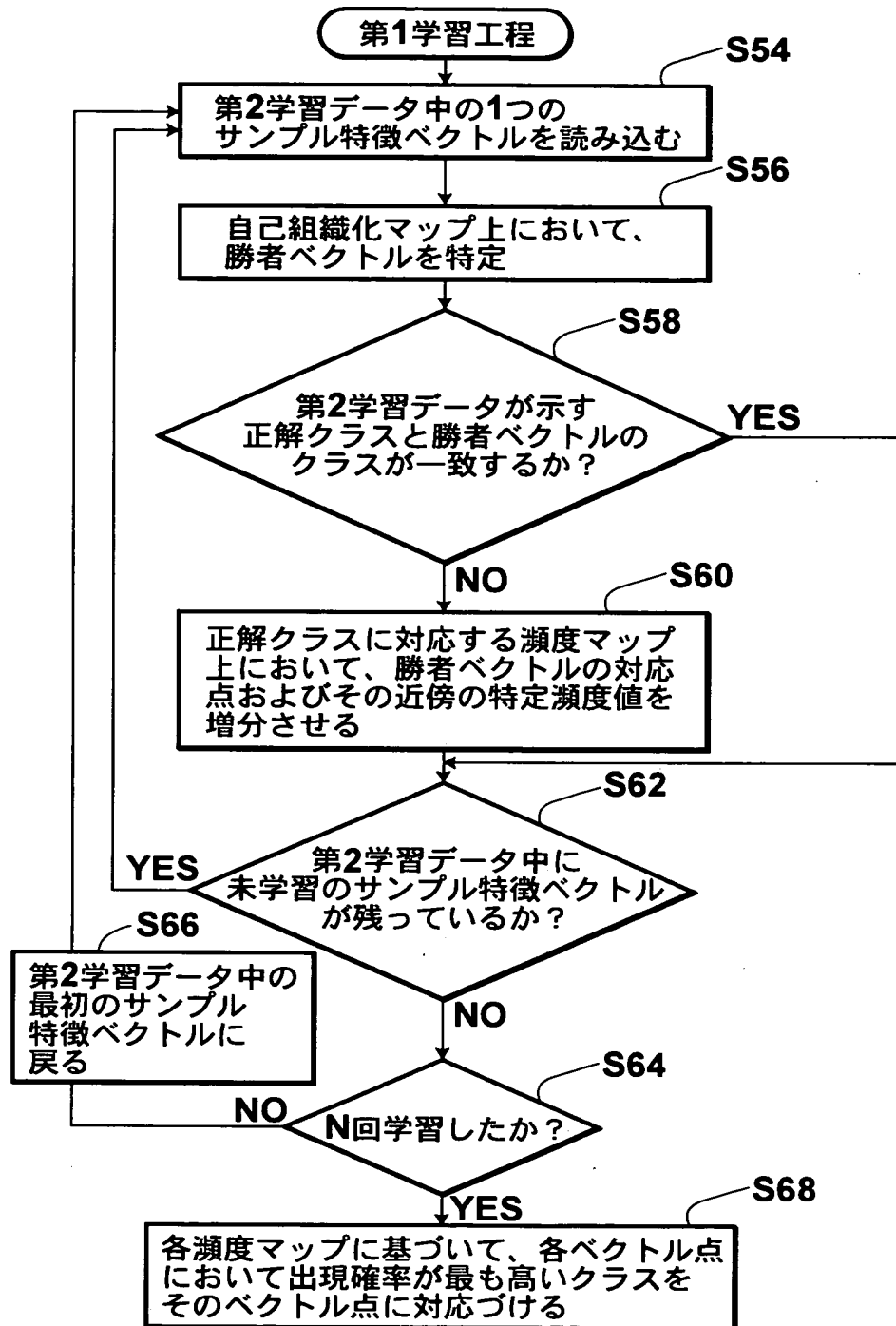


FIG.13



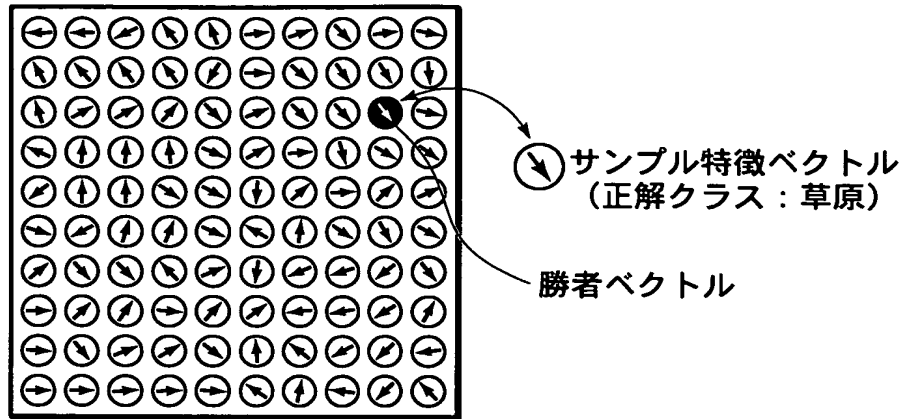
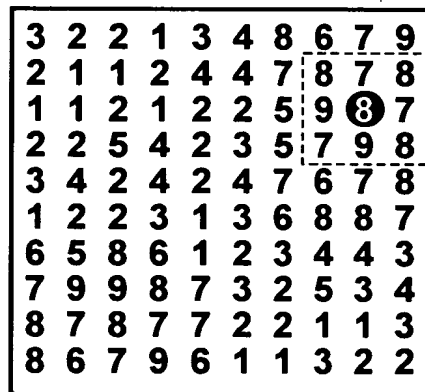
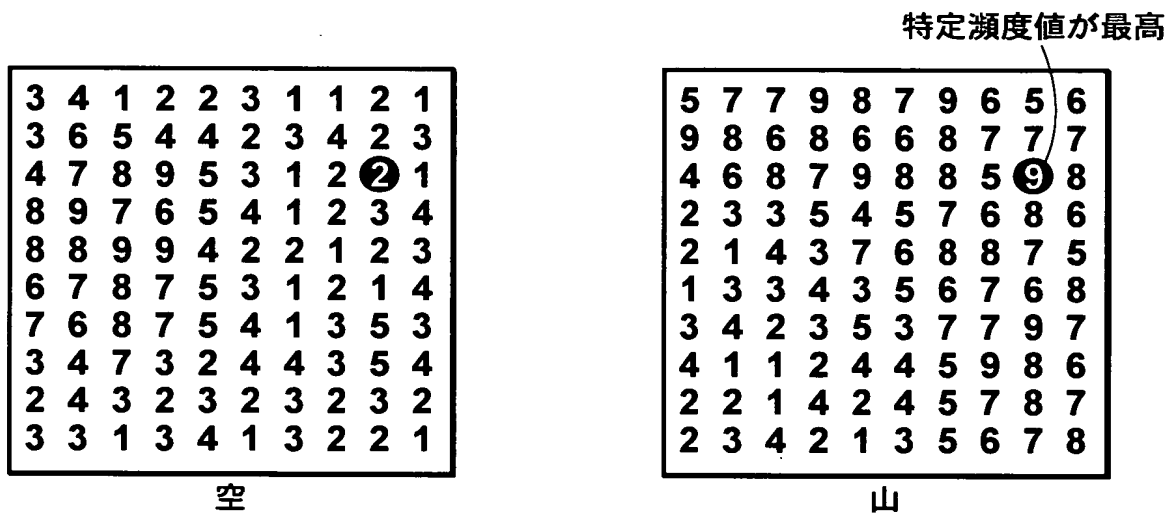


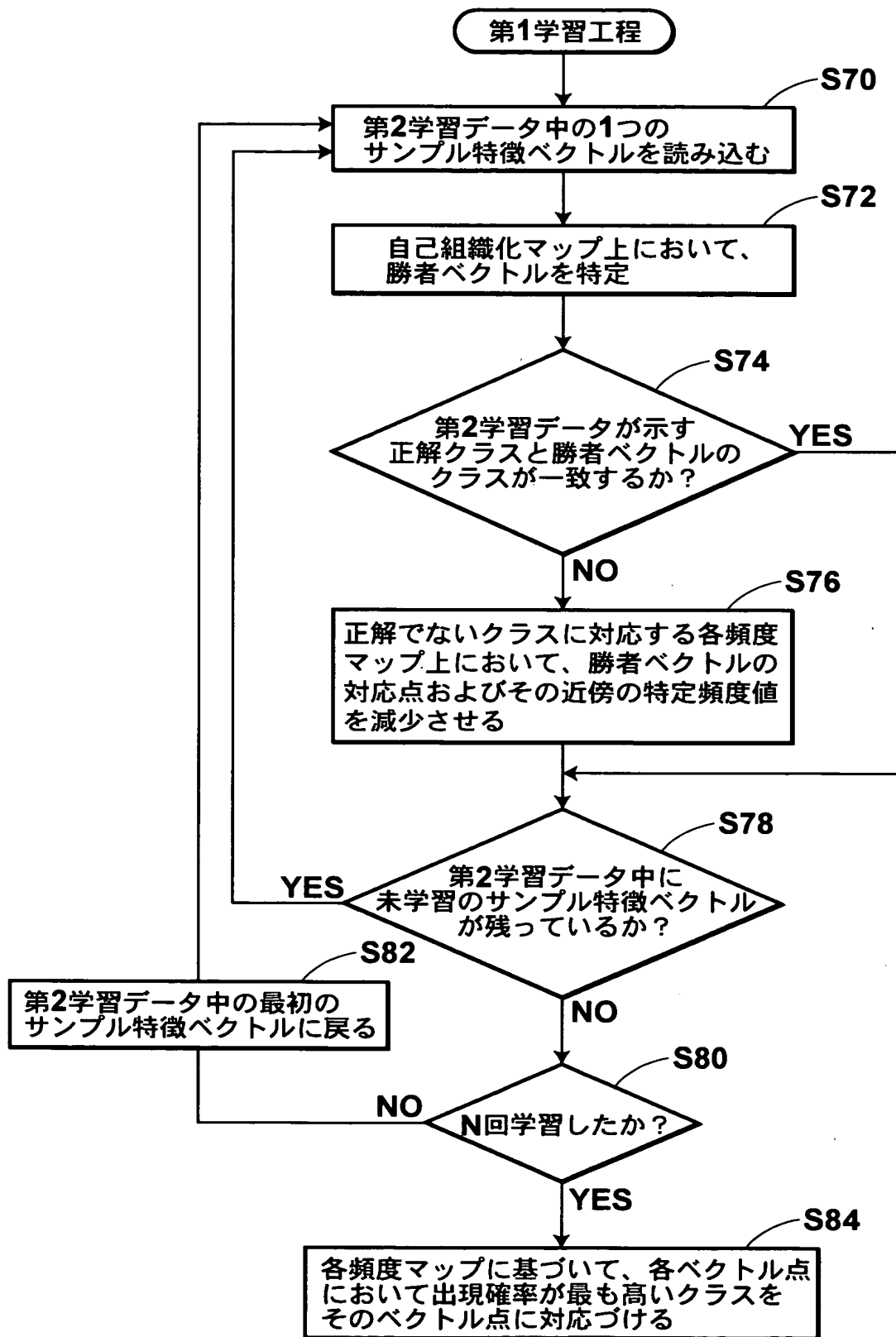
FIG.14A

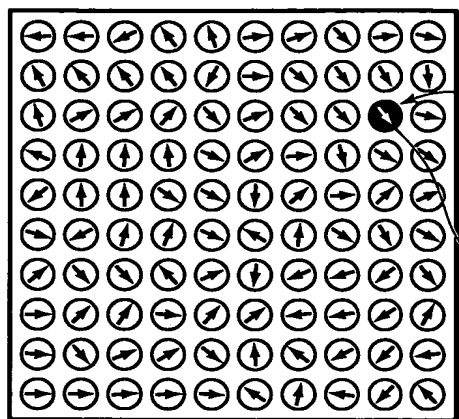


草原:正解クラスに対応

FIG.14B

FIG.15





サンプル特徴ベクトル
(正解クラス: 草原)

勝者ベクトル

FIG.16A

3	4	1	2	2	3	1	1	2	1
3	6	5	4	4	2	3	4	2	3
4	7	8	9	5	3	1	2	2	1
8	9	7	6	5	4	1	2	3	4
8	8	9	9	4	2	2	1	2	3
6	7	8	7	5	3	1	2	1	4
7	6	8	7	5	4	1	3	5	3
3	4	7	3	2	4	4	3	5	4
2	4	3	2	3	2	3	2	3	2
3	3	1	3	4	1	3	2	2	1

空

5	7	7	9	8	7	9	6	5	6
9	8	6	8	6	6	8	7	7	7
4	6	8	7	9	8	8	5	9	8
2	3	3	5	4	5	7	6	8	6
2	1	4	3	7	6	8	8	7	5
1	3	3	4	3	5	6	7	6	8
3	4	2	3	5	3	7	7	9	7
4	1	1	2	4	4	5	9	8	6
2	2	1	4	2	4	5	7	8	7
2	3	4	2	1	3	5	6	7	8

山

特定瀬度値が最高

3	2	2	1	3	4	8	6	7	9
2	1	1	2	4	4	7	8	7	8
1	1	2	1	2	2	5	9	8	7
2	2	5	4	2	3	5	7	9	8
3	4	2	4	2	4	7	6	7	8
1	2	2	3	1	3	6	8	8	7
6	5	8	6	1	2	3	4	4	3
7	9	9	8	7	3	2	5	3	4
8	7	8	7	7	2	2	1	1	3
8	6	7	9	6	1	1	3	2	2

草原:正解クラスに対応

FIG.16B

FIG.17

40

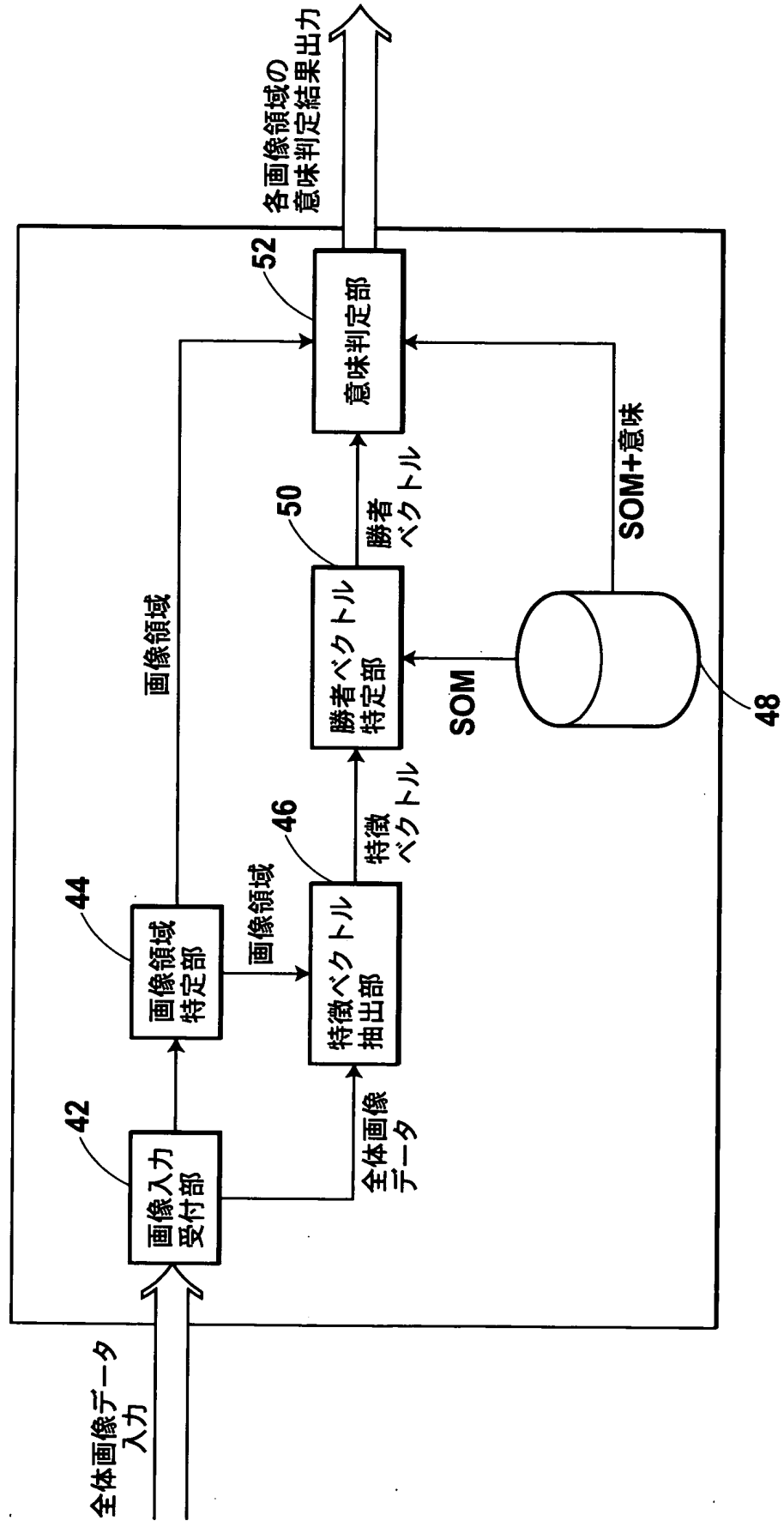


FIG.18

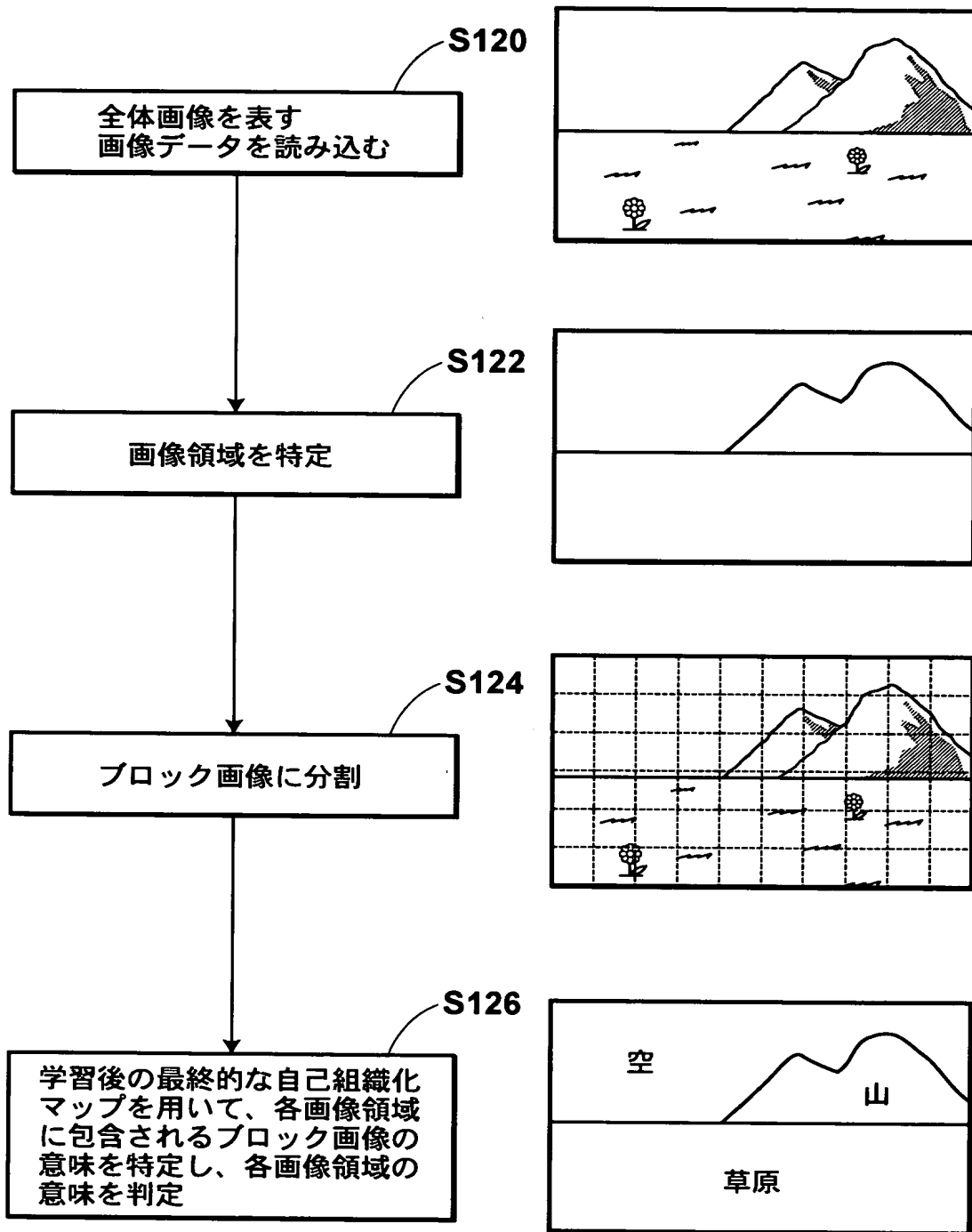


FIG.19

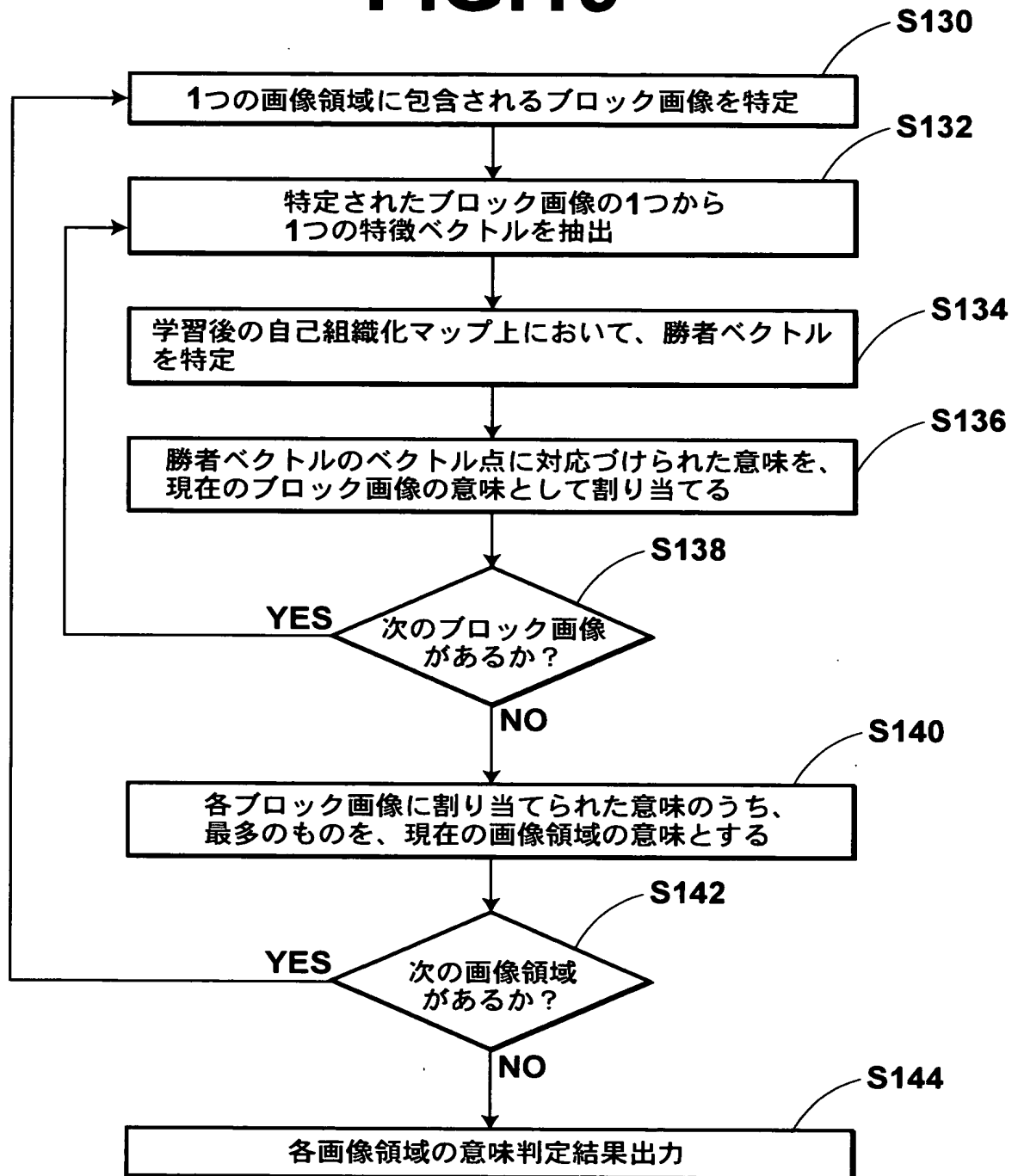
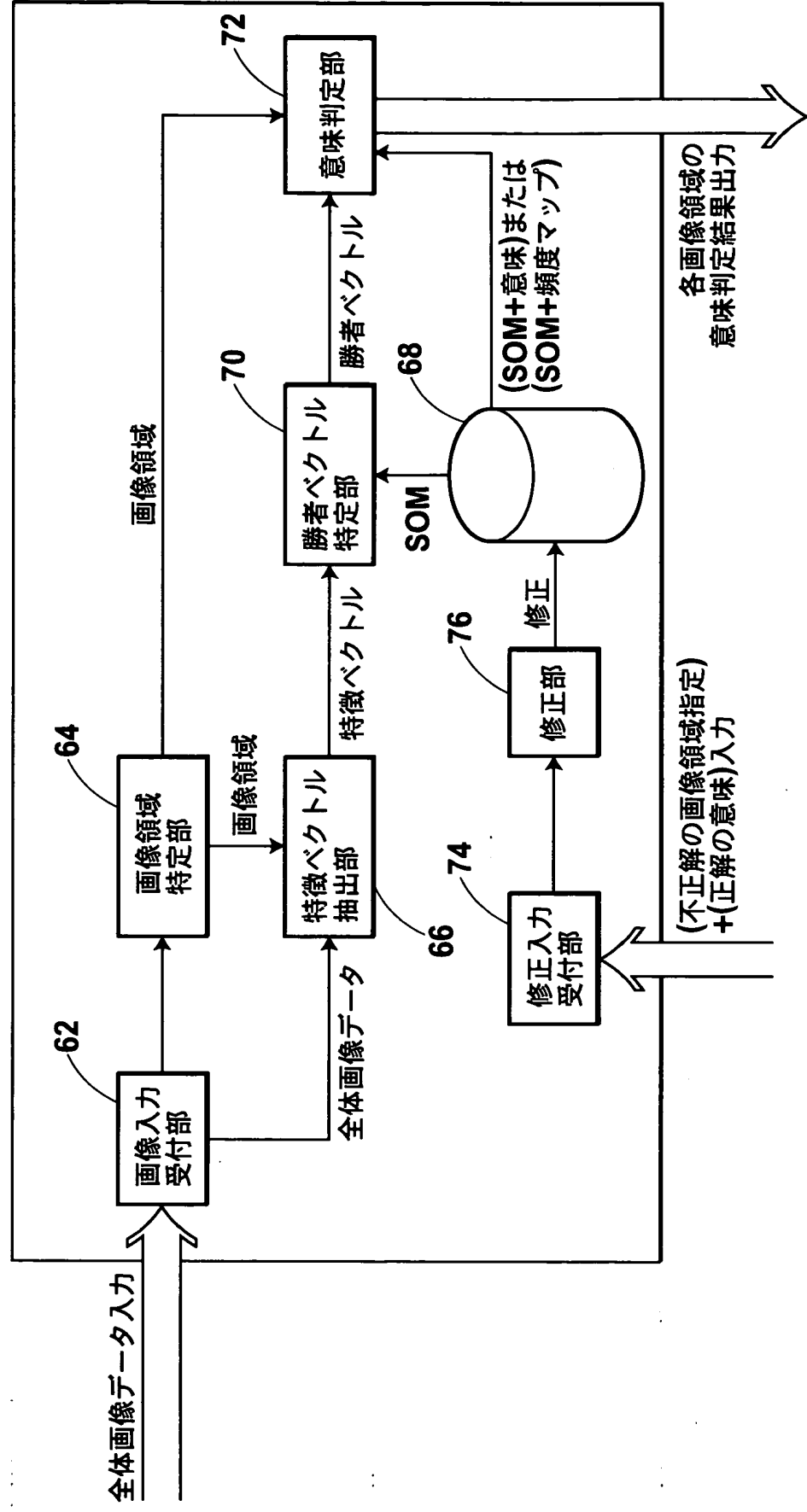


FIG. 20



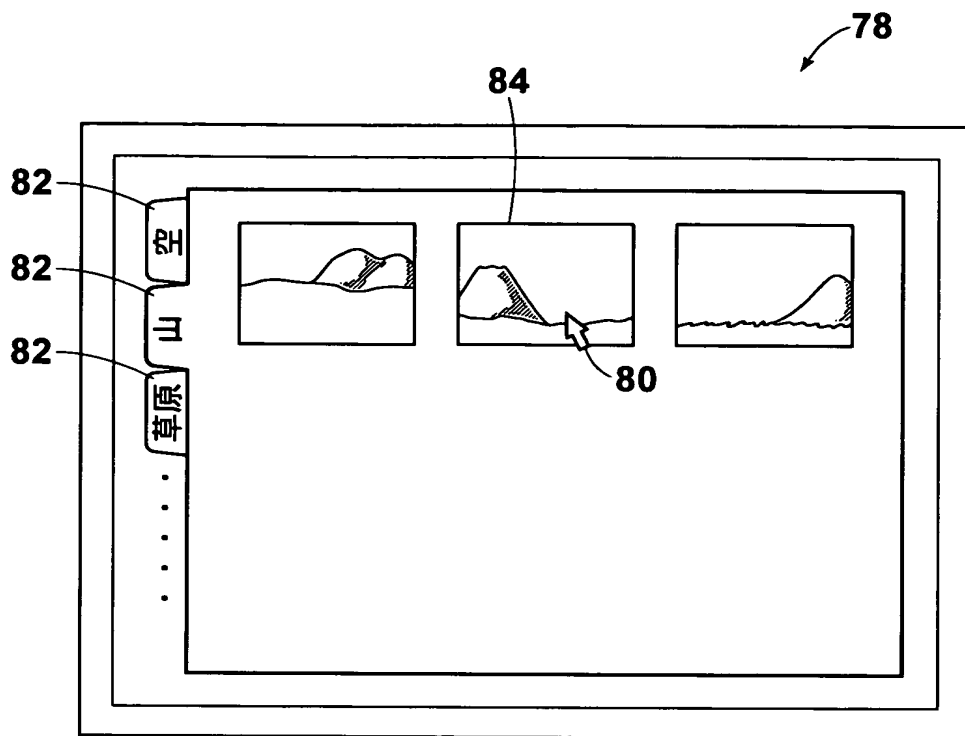


FIG. 21A

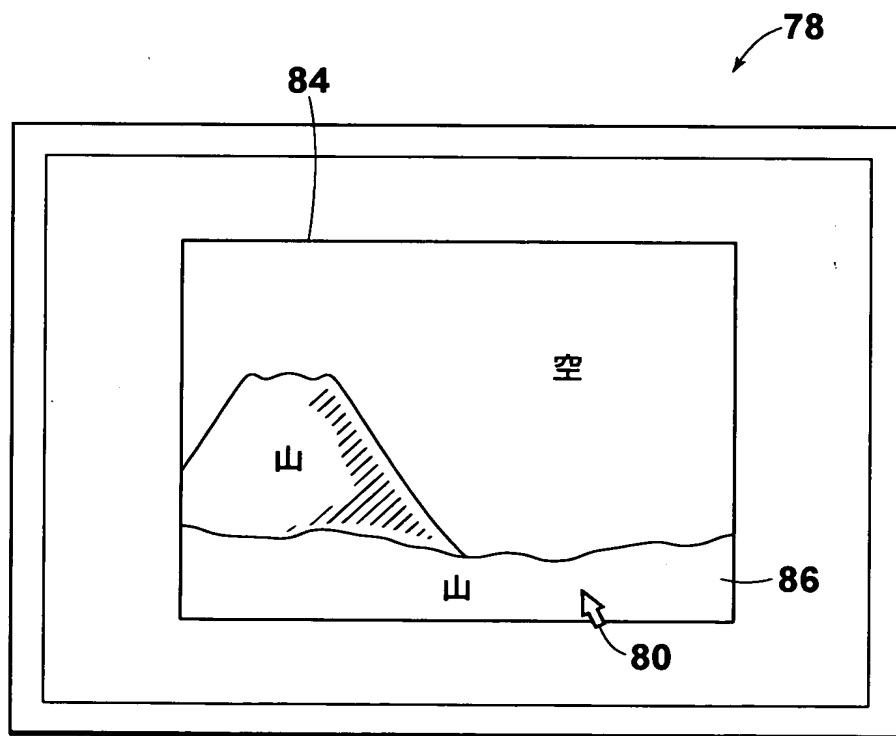


FIG. 21B

FIG.22

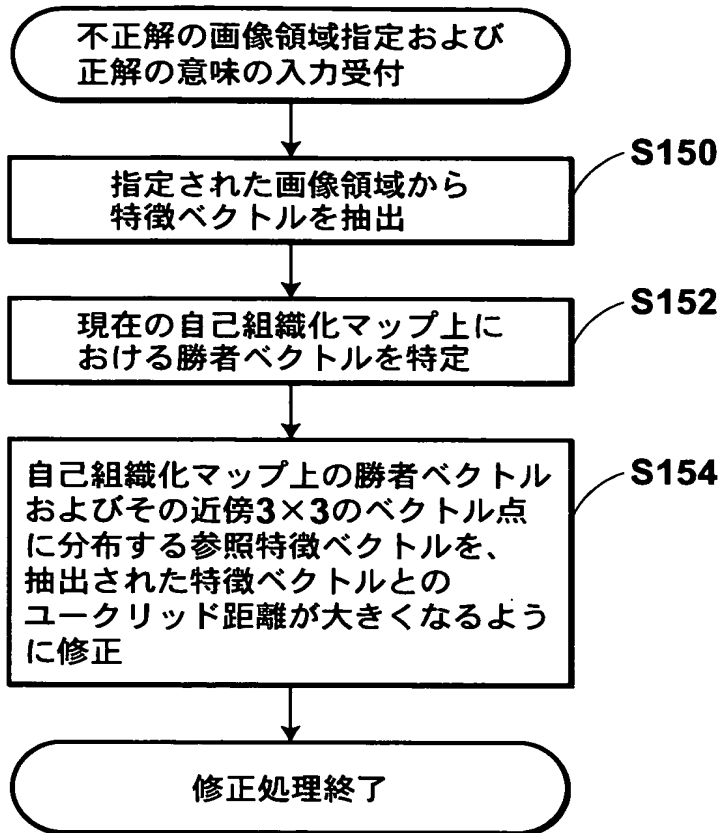


FIG.23

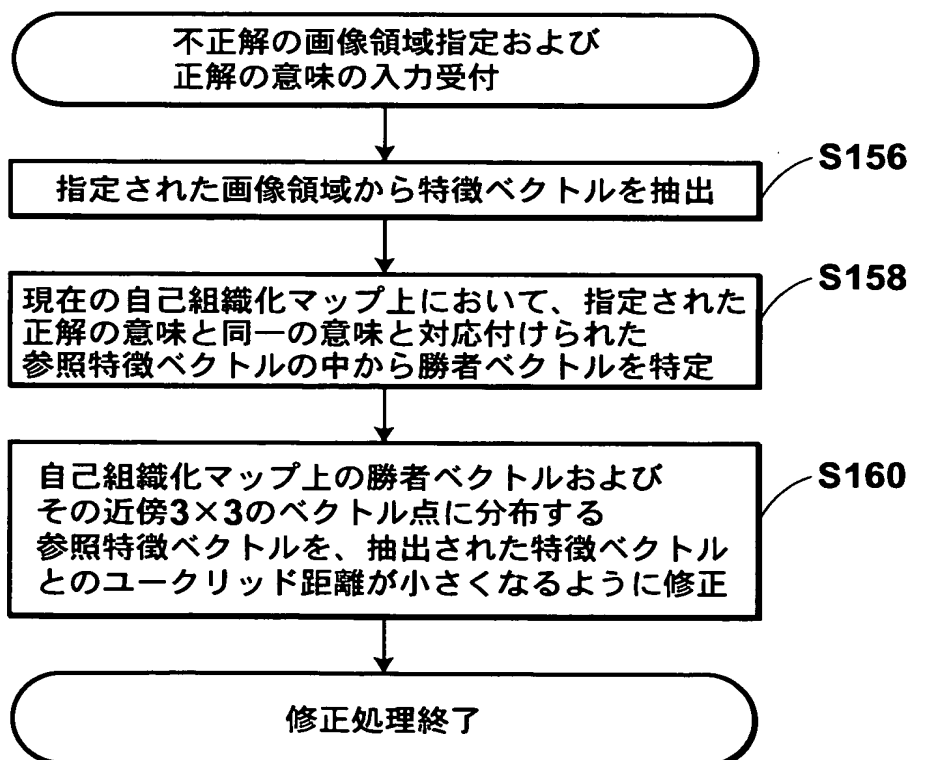


FIG.24

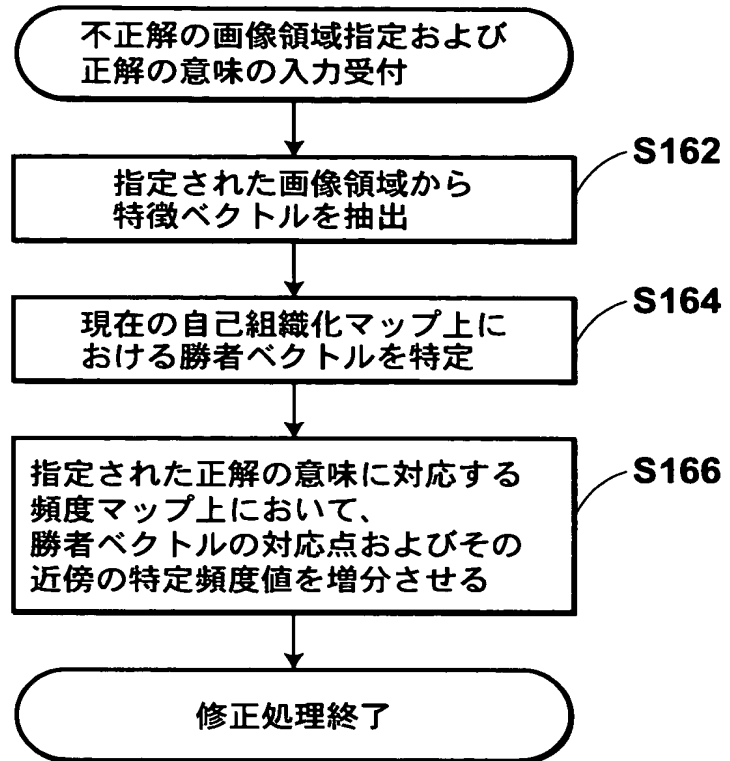


FIG.25

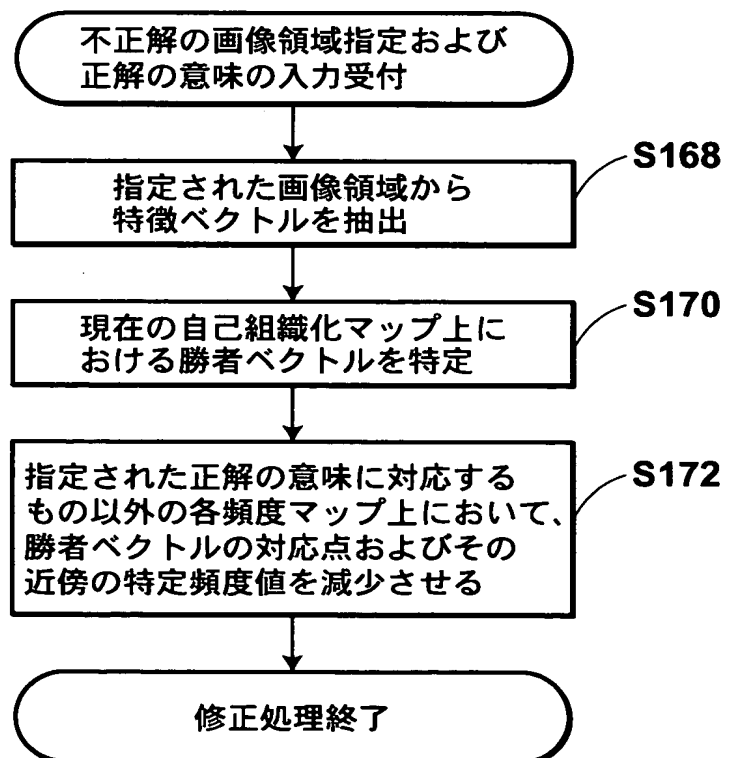


FIG.26A

修正対向伝搬ネットワークによる
学習後の自己組織化マップ

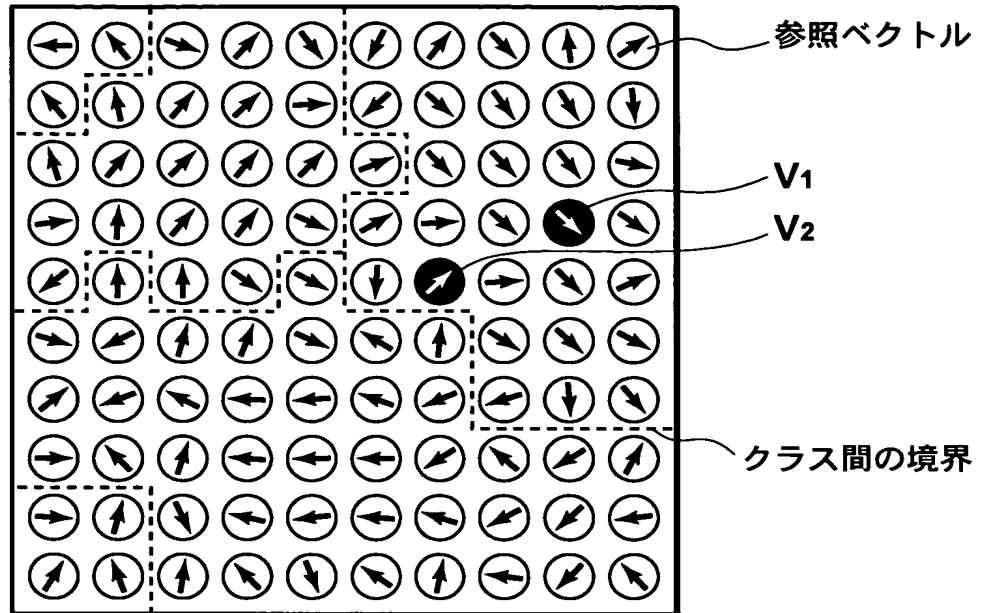
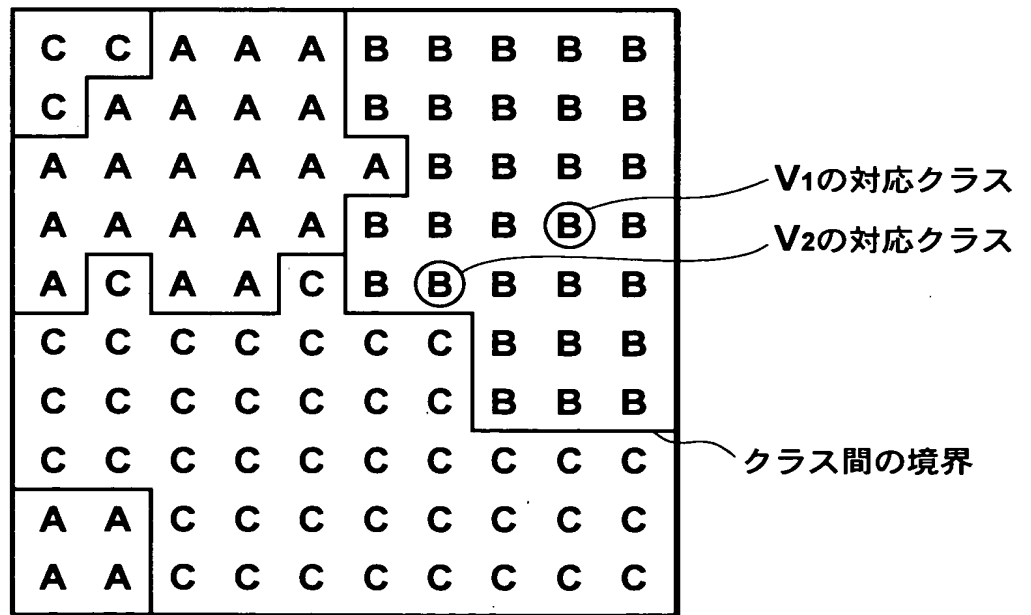


FIG.26B

対応



対応クラスのマップ